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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/620,636	07/15/2003	Hsieh Kun Lee	-	1706	
25859 759			EXAMINER		
WEI TE CHUNG FOXCONN INTERNATIONAL, INC. 1650 MEMOREX DRIVE SANTA CLARA, CA 95050			MCKINNON	MCKINNON, TERRELL L	
			ART UNIT	PAPER NUMBER	
			3743		

DATE MAILED: 02/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Application No.	Applicant(s)				
		10/620,636	LEE ET AL.				
		Examiner	Art Unit				
		Terrell L Mckinnon	3743				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
THE - External after - If the - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. To solve of the provisions of 3°CFR.1.3 SIX 69 MONTHS from the mailing date of this communication. Period for reply is specified above is test than thirty (30) days, a reply period for reply is specified above, the maximum statutory period up to reply with the set or extended period for reply by lby statute, eply received by the Office later than three months after the mailing dot patent term adjustment. See 37°CFR.1704(b).	6(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) days ill apply and will expire SIX (6) MONTHS from CRUES the application to become 88 AND ONE	swill be considered timely. the mailing date of this communication.				
Status							
1)⊠ Responsive to communication(s) filed on 15 July 2003.							
2a)□	This action is FINAL. 2b) This action is non-final.						
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims		•				
4) Claim(s) 1-17 is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠	☑ Claim(s) <u>1-17</u> is/are rejected.						
	Claim(s) is/are objected to.						
8)[_]	Claim(s) are subject to restriction and/or	election requirement.					
Application	on Papers						
9)[] 7	The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on 15 July 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)[1	he oath or declaration is objected to by the Exa	miner. Note the attached Office	Action or form PTO-152.				
Priority u	nder 35 U.S.C. § 119	-					
12)⊠ A	acknowledgment is made of a claim for foreign p	riority under 35 U.S.C. & 119(a)-	(d) or (f)				
a)⊠ All b)□ Some * c)□ None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
) Notice of Draftsperson's Patent Drawing Review (PTO-948)) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date. 5) Notice of Informal Patent Application (PTO-152)							
Paper	No(s)/Mail Date 7/15/2003.	6) Other:	ent Application (PTO-152)				
. Patent and Tra	demark Office						

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DETAILED ACTION

Claim Rejections - 35 USC § 102

 The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

2. Claims 1-8 and 10-19 are rejected under 35 U.S.C. 102(e) as being anticipated by Hsien (U.S. 6,655,449).

Hsien discloses a liquid cooling device comprising of the applicant's claimed and disclosed limitations of the instant invention.

Claim Rejections - 35 USC § 103

 The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action: Application/Control Number: 10/620,636

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this tille, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claim 9 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hsien (U.S. 6,655,449) in view of Calaman et al. (U.S. 6,719,039).

Hsien's invention discloses all of the claimed limitations from above except for the height of the pins are substantially equal to the height of the sidewalls.

However, Calaman teaches a liquid cooling device, wherein the height of the pins
 is substantially equal to the height of the sidewalls (21).

Given the teachings of Calaman, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the liquid cooling device of Hsien with the height of the pins is substantially equal to the height of the sidewalls.

Doing so would enhance the support structural of the cooling device and thermal conductivity.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following references cited on the USPTO 892 discloses related limitations of the applicant's claimed and disclosed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Terrell L Mckinnon whose telephone number is 571-272-4797. The examiner can normally be reached on Monday -Thursday and every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Bennett can be reached on 571-272-4791. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Terrell L Mckinnon Primary Examiner Art Unit 3743 February 22, 2005